

Work Order ID 141728

Wednesday, February 10, 2016 12:52:02 PM

141728

Page 1

Item ID: D3896-1 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Relay
 Start Date: 2/10/2016 Start Qty: 4.00 ***4*** Cust Item ID:
 Required Date: 2/17/2016 Req'd Qty: 4.00 ***4*** Customer:
 Reference:

Approvals: Process Plan: MCS Date: FEB 10 2016 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D3896	A

100 0.00 ***100*** 4 FEB 10 2016 DAS
 Purchasing 0.00 13
 Purchasing Memo 9-89
 Issue P/O: 31320
 Purchase Part Number: 1616121-2 or Q-50AB-1
 Supplier: Arrow Electronics or Flame Enterprises
 Certificate of conformity is required

110 Receive & Inspect for Damage & Mat'l Certs 0.00 ***110*** 4 FEB 22 2016 DAS
 Packaging 0.00 6
 Packaging Memo 9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		☐ OTHER : _____					

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Page 2

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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC6- Inspect dimensions to drawing	0.00							
120									
QC	Memo	0.00							DAS 38 9-89
Quality Control									FEB 22 2016
130	Identify as per dwg & Stock Location: <u>S1057</u>	0.00							
130									
Packaging	Memo	0.00							4 MLC 16-02-22
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.01							16/2/24 JF
Quality Control									

MLC FEB 23 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions				
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance				
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect				
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing				
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved				
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing				
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish				
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread				
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence				
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____							
Misidentified ☐	☐ Past Due								

Picklist Print

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Page 1

Work Order ID: 141728

141728

Parent Item: D3896-1

D3896-1

Parent Item Name: Relay

Start Date: 2/10/2016

Required Date: 2/17/2016

Start Qty: 4.00

Required Qty: 4.00

Comments:

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
1616131-2		Purchased	No			110	Each	0.0000	1	4			

1616131-2

Relay

**

Q-SOAB-1

FEB 22 2016

DQA: _____ Date: _____



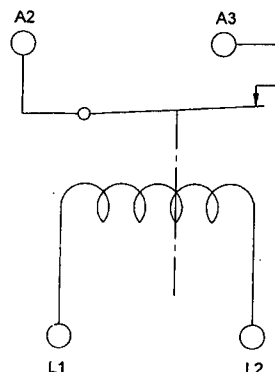
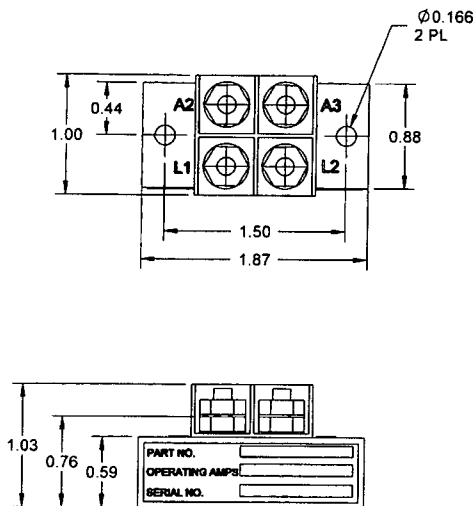
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

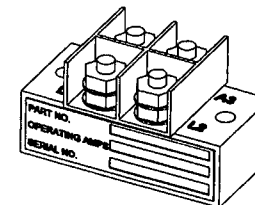
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		☐ OTHER : _____							

SPECIFICATION CONTROL DRAWING



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 141728 *ML5*
1602-10



OPERATING CHARACTERISTICS	
PICKUP	1.5 AMP MAX.
DROPOUT	LESS THAN 1 AMP
CONTINUOUS	10 AMP MAX. 15 AMP FOR 3 SEC.
MAX. WEIGHT	1.25 OZ.
TEMPERATURE	-55°C TO +71°C
VIBRATION	10 Gs TO 500 HZ
ALTITUDE	50,000 FT. MAX.
CONTACT RATING	1 AMP SWITCHING 2 AMP CARRY

D3896-X RELAY - CURRENT INDICATING

DART PART NUMBER	POSSIBLE SUPPLIER	HARTMAN ELECTRICAL MANUFACTURING PART NUMBER	TYCO ELECTRICAL PART NUMBER
D3896-1	ARROW ELECTRONICS, INC. FLAME ENTERPRISES, INC.	Q-50AB-1	1616131-2

RELEASED
2009-08-28
MM

- NOTES:
1) MATERIAL: N/A
2) FINISH: N/A
3) TOLERANCES: N/A
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: N/A
6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3896-X" AND B/N USING FINE POINT PERMANENT INK MARKER
7) WEIGHT: 0.08 lbs

A	NEW ISSUE	09.02.05
REV.	DESCRIPTION	BY DATE
DESIGN	<i>AS</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. D3896 TITLE RELAY - CURRENT IND. SCALE NTS
DRAWN	<i>AS</i>	
CHECKED	<i>AS</i>	
MFG. APPR.	<i>AS</i>	
APPROVED	<i>AS</i>	
DE APPR.	<i>AS</i>	REV. A SHEET 1 OF 1
DATE	09.02.05	COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					

Root Cause			FAULT CATEGORY								
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
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LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								



Crestwood Technology Group
 1 Odell Plaza
 Yonkers, NY 10701
 Phone - 914-779-3500
 Fax - 914-375-4508



PACKING LIST

Shipment #	4036852
Purchase Order #	PO31320
Sales Order #	1034423
Ship Date	02-15-16
Page #	1 of 1

Ship Via	Terms	Buyer	Account #	Salespeople	Entered By	Warehouse
FDX INT ECONOMY	NET 30	Chantal LaVoie	002786	001	SHEALA	01

Sold To:

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKERSBUR, ON K6A 1K7
 CANADA

Ship To:

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKERSBUR, ON K6A 1K7
 CANADA

Phone:

LINE	ITEM # / DESCRIPTION	CUSTOMER ITEM # MANUFACTURER	U/M	QTY ORD	SHIPPED	CTG LOT #
1	59915K274 Rod End Bearing		EA	12	/	12 2096868
2	Q-50AB-1		EA	4	/	4 2096894

16/12/22
SV

Use Freight Account : 151793240

Your purchase order is further governed by the policies, terms, and conditions as set forth in the "Terms and Conditions" section of our website www.ctg123.com/terms at the time of your purchase. If you cannot access this website, please call us at (914) 779-3500, ext.121 and a written copy will be provided to you. Your failure to review the Terms and Conditions does not waive any of the terms or conditions.

TERMS AND CONDITIONS OF SALE

Crestwood Technology Group (CTG) considers all sales to be non-cancelable, non-returnable, and non-refundable and cannot be rescheduled. The only exceptions may be if a customer reports to us in writing, within 7 calendar days of ship date, that the goods received do not conform to the manufacturer's stated form, fit or function (failure report required). For any RMA issues, please visit our website for details; www.ctg123.com/terms-of-sale. RMA's will not be accepted without a specific RMA number provided by CTG.



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO31320**

Purchase Order Date 2/10/2016

PO Print Date 2/10/2016

Page Number 1 of 2

Order From :

VU-CRE001

CRESTWOOD TECHNOLOGY GROUP
1 ODELL PLAZA
SUITE 139

YONKERS, NY 10701
USA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

FEB 11 2016

Contact Name

Vendor Phone 1-866-779-0807

Ship To Contact

Ship To Phone

Ship Via: FedEx Economy collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	Q-50AB-1	Relay	2/18/2016 Yes 2/18/2016		4.00 Each	\$834.00	\$3,336.00
	AS PER DWG D3896 REV. A B141728						
Line Total:							\$3,336.00
2	59915K274	Rod End Bearing	2/18/2016 Yes 2/18/2016		12.00 Each	\$12.20	\$146.40
	AS PER DWG D4777 REV. A B141688						
Line Total:							\$146.40

22/2/16
SP

PO Instructions: Fedex Acc# 151793240

Note:

2/10/2016



1 Odell Plaza
Suite 139
Yonkers, NY 10701-1402

Certificate of Compliance

(914) 274-6122 ph
(914) 470-4037 fax
moyna@ctgnow.com

Customer:	DART AEROSPACE LTD		Shipping Location:	HAWKERSBUR, ON CA	
Part #:	59915K274	MFG:		Lot No:	
Qty:	12	Date Code:		Rev:	
Part #:	Q-50AB-1	MFG:		Lot No:	
Qty:	4	Date Code:		Rev:	

It is hereby certified that all materials used in the manufacture of parts in the quantity called for on the subject purchase order conform to the material and or manufacturing specifications indicated in drawings or specifications as called for on said purchase order, and conform to the requirements of JESD 31 and JESD 625.

Brendan Moyna
Director of QA

Quality Assurance Control Document

Customer Purchase Order #: PO31320

Ship Date: 02/15/16

The contents of this shipment are certified accurate in the count and product specifications by the following team members:

Inspected by: _____

Packed by: 

Remarks:

We pride ourselves in our commitment to quality and 100% accuracy. In the event of a discrepancy please return a copy of this paper with a discrepancy report. All claims must be made in writing within 7 calendar days of receipt of product to be valid.

Terms and Conditions of Sale

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